1641



## **ENTERED**

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RAW SEQUENCE LISTING

DATE: 01/21/2004

PATENT APPLICATION: US/10/644,875

TIME: 14:50:31

Input Set : N:\Crf3\RULE60\10644875.RAW.txt
Output Set: N:\CRF4\01212004\J644875.raw

## SEQUENCE LISTING

			SEQUENCE LISTING								
	3		RAL INFORMATION:								
	5		APPLICANT: Wei, et al.								
	7	(ii)	TITLE OF INVENTION: Transforming Growth Factor Alpha HII								
	9	(iii)	NUMBER OF SEQUENCES: 14								
	11	(iv)	CORRESPONDENCE ADDRESS:								
	12		(A) ADDRESSEE: Human Genome Sciences, Inc.								
	13		(B) STREET: 9410 Key West Ave								
	14		(C) CITY: Rockville								
	15		(D) STATE: MD								
	16		(E) COUNTRY: US								
	17	•	(F) ZIP: 20850								
	19	· (v)	COMPUTER READABLE FORM:								
	20		(A) MEDIUM TYPE: Floppy disk								
	21		(B) COMPUTER: IBM PC compatible								
	22		(C) OPERATING SYSTEM: PC-DOS/MS-DOS								
	23		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30								
	25	(vi)	CURRENT APPLICATION DATA:								
C> :	26		(A) APPLICATION NUMBER: US/10/644,875								
C> :	27		(B) FILING DATE: 21-Aug-2003								
	28		(C) CLASSIFICATION: 536								
C>	37	(vii)	PRIOR APPLICATION DATA:								
	31		(A) APPLICATION NUMBER: US/09/227,853A								
,	32		(B) FILING DATE: 11-JAN-1999								
	34		(A) APPLICATION NUMBER: 08/930,564								
,	35		(B) FILING DATE: 30-JAN-1998								
	38		(A) APPLICATION NUMBER: WO PCT/US95/06386								
;	39		(B) FILING DATE: 19-MAY-1995								
C>	41	(viii)	ATTORNEY/AGENT INFORMATION:								
·.	42		(A) NAME: Brookes, A. Anders								
	43		(B) REGISTRATION NUMBER: 36,373								
	44		(C) REFERENCE/DOCKET NUMBER: PF174USD1								
C>	46	(ix)	TELECOMMUNICATION INFORMATION:								
	47		(A) TELEPHONE: 301-309-8504								
	48		(B) TELEFAX: 301-309-8439								
	51	(2) INFO	RMATION FOR SEQ ID NO: 1:								
,	53	(i)	SEQUENCE CHARACTERISTICS:								
	54		(A) LENGTH: 1695 base pairs								
	55		(B) TYPE: nucleic acid								
	56		(C) STRANDEDNESS: single								
	57		(D) TOPOLOGY: linear								
!	59	(ii)	MOLECULE TYPE: DNA (genomic)								
1	62	(ix)	FEATURE:								

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Input Set : N:\Crf3\RULE60\10644875.RAW.txt
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·									
63 (A) NAME/KEY: CDS									
64 (B) LOCATION: 3231444									
68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:									
70 CACTCGTCTG CCCCTGGACT CCCGTCTCCT CCTGTCCTCC GGCTTCCCAG AGCTCCCTCC	60								
72 TTATGGCAGC AGCTTCCCGC GTCTCCGGCG CAGTTCTCAG CGGACGACCC TCTCGCTCCG	120								
74 GGGCTGAGCC CAGTCCCTGG ATGTTGCTGA AACTCTCGAG ATCATGCGCG GGTTTGGCTG	180								
76 CTGCTTCCCC GCCGGGTGCC ACTGCCACCG CCGCCGCCTC TGCTGCCGCC GTCCGCGGGA	240								
78 TGCTCAGTAG CCCGCTGCCC GGCCCCCGCG ATCCTGTGTT CCTCGGAAGC CGTTTGCTGC	. 300								
80 TGCAGAGTTG CACGAACTAG TC ATG GTG CTG TGG GAG TCC CCG CGG CAG TGC	352								
81 Met Val Leu Trp Glu Ser Pro Arg Gln Cys									
82 1 5 10									
84 AGC AGC TGG ACA CTT TGC GAG GGC TTT TGC TGG CTG CTG CTG CCC	. 400								
85 Ser Ser Trp Thr Leu Cys Glu Gly Phe Cys Trp Leu Leu Leu Pro									
86 15 20 25									
88 GTC ATG CTA CTC ATC GTA GCC CGC CCG GTG AAG CTC GCT GCT TTC CCT	448								
89 Val Met Leu Leu Ile Val Ala Arg Pro Val Lys Leu Ala Ala Phe Pro									
90 30 35 40									
92 ACC TCC TTA AGT GAC TGC CAA ACG CCC ACC GGC TGG AAT TGC TCT GGT	496								
93 Thr Ser Leu Ser Asp Cys Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly									
94 45 50 55									
96 TAT GAT GAC AGA GAA AAT GAT CTC TTC CTC TGT GAC ACC AAC ACC TGT	544								
97 Tyr Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys									
98 60 65 70									
100 AAA TTT GAT GGG GAA TGT TTA AGA ATT GGA GAC ACT GTG ACT TGC GTC	592								
101 Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val									
102 75 80 85 90	640								
104 TGT CAG TTC AAG TGC AAC AAT GAC TAT GTG CCT GTG TGT GGC TCC AAT	640								
105 Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn									
106 . 95 . 100 . 105	688								
108 GGG GAG AGC TAC CAG AAT GAG TGT TAC CTG CGA CAG GCT GCA TGC AAA	000								
109 Gly Glu Ser Tyr Gin Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys									
110 110 120 120 112 CAG CAG AGT GAG ATA CTT GTG GTG TCA GAA GGA TCA TGT GCC ACA GAT	736								
113 Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp	750								
113 GIN GIN Ser GIU TIE LEU VAI VAI SER GIU GIY SER CYS AIA INI ASP 114 125 130 135									
114 123 130 130 130 130 130 130 130 130 130 13	784								
117 Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr	, 0 1								
118 140 145 150									
120 AGT CAA AAG GAG ACA TCC ACC TGT GAT ATT TGC CAG TTT GGT GCA GAA	832								
121 Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu									
122 155 160 165 170									
124 TGT. GAC GAA GAT GCC GAG GAT GTC TGG TGT GTG TGT AAT ATT GAC TGT	880								
125 Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys									
126 175 180 185									
128 TCT CAA ACC AAC TTC AAT CCC CTC TGC GCT TCT GAT GGG AAA TCT TAT	928								
129 Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr									
130 190 195 200									
132 GAT AAT GCA TGC CAA ATC AAA GAA GCA TCG TGT CAG AAA CAG GAG AAA	976								
133 Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys									

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Input Set : N:\Crf3\RULE60\10644875.RAW.txt
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134			205					210					215				
															ACA		1024
137	Ile	Glu	Val	Met	Ser	Leu	Gly	Arg	Cys	Gln	Asp	Asn	Thr	Thr	Thr	Thr	
138		220					-225					230					
140	ACT	AAG	TCT	GAA	GAT	GGG	CAT	TAT	GCA	AGA	ACA	GAT	TAT	GCA	GAG	TAA	1072
141	Thr	Lys	Ser	Glu	Asp	Gly	His	Tyr	Ala	Arg	Thr	Asp	Tyr	Ala	Glu	Asn	•
142	235					240					245					250	
144	GCT	AAC	AAA	TTA	GAA	GAA	AGT	GCC	AGA	GAA	CAC	CAC	ATA	CCT	TGT	CCG	1120
145	Ala	Asn	Lys	Leu	Glu	Glu	Ser	Ala	Arg	Glu	His	His	Ile	Pro	Cys	Pro	
146			_		255		•			260					265		
148	GAA	CAT	TAC	AAT	GGC	TTC	TGC	ATG	CAT	GGG	AAG	TGT	GAG	CAT	TCT	ATC	1168
149	Glu	His	Tyr	Asn	Gly	Phe	Cys	Met	His	Gly	Lys	Cys	Glu	His	Ser	Ile	
150			-	270	•		-		275	-	-	_		280			
152	AAT	ATG	CAG	GAG	CCA	TCT	TGC	AGG	TGT	GAT	GCT	GGT	TAT	ACT	GGA	CAA	1216
															Gly		
154			~~-		-		_	290	-	•		-	295		_		
	CAC	TGT		AAA	AAG	GAC	TAC	AGT	GTT	CTA	TAC	GTT	GTT	CCC	GGT	CCT	1264
															Gly		
158		300	020		-10		305				- 1 -	310			1		
	GTA		ጥጥጥ	CAG	тат	GTC		ATC	GCA	GCT	GTG		GGA	ACA	ATT	CAG	1312
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	315	9		02	- 1 -	320					325					330	
		GCT	GTC	АТС	тст		GTG	GTC	СТС	TGC		ACA	AGG	AAA	TGC		1360
															Cys		
166	110	1114	• • •	110	335	• • •	• • •		100	340			9		345		
	ΔCΔ	AGC	אמר	AGA		CAC	AGA	CAG	AAG		ΔΔΤ	ACA	GGG	CAC	TAC	AGT	1408
															Tyr		1.00
170	Arg	Der	ASII	350	116	1113	nrg	0111	355	OTII	11011	1111	OLY	360	- y -	561	
	TCG	GAC	דע ע	ACA	ΔΟΔ	AGA	GCG	TCC		AGG	ТΤЪ	АТС	ТААЛ		AGC		1454
				Thr									11111	10001	100		1101
174	Der	АЗР	365	1111	1111	Arg	пια	370	1111	731.9	шси	110					
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																CAATGA	1574
																CATTGT	1634
																AAAAA	1694
184		JAIG.	111 .	1110.	IGIM	11 0.	. בערעריז	ישאא	, IA.	,	IAIC	пол	лиии	TU1 1	7 11 11 11	WWWWI	1695
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202		_	_	20	_	-			25	_	m)			30	70		
	Ala	Arg		Val	Lys	Leu	Ala	_	Phe	Pro	Thr	Ser		Ser	Asp	Cys	
205			35					40					45				

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```
207 Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
                             55
210 Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
                         70
213 Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
                                         90
                     85 -
216 Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
                                    105
                100
219 Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
222 Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
                            135
225 Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
                                            155
                        150
228 Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu
                                        170
                    165
231 Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
               180
                                    185
234 Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
                                200
            195
                                                     205
237 Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Met Ser Leu
                            215
240 Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly
                        230
                                             235
243 His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
                    245
                                         250
246 Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe
                260
                                    265
                                                         270
249 Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
           275
                                280
252 Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
                            295
                                                 300
255 Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Gln Tyr Val
256 305
                        310
                                             315
258 Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile Ala Val Ile Cys Val
                    325
                                         330
261 Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg Ser Asn Arg Ile His
                                    345
264 Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser Asp Asn Thr Thr Arg
            355
                                360
267 Ala Ser Thr Arg Leu Ile
        370
268
270 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
273
              (A) LENGTH: 30 base pairs
              (B) TYPE: nucleic acid
274
              (C) STRANDEDNESS: single
275
              (D) TOPOLOGY: linear
276
278
        (ii) MOLECULE TYPE: DNA (genomic)
```

## RAW SEQUENCE LISTING DATE: 01/21/2004 PATENT APPLICATION: US/10/644,875 TIME: 14:50:31

Input Set: N:\Crf3\RULE60\10644875.RAW.txt
Output Set: N:\CRF4\01212004\J644875.raw

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
283
                                                                             30
285 CCCGGATCCG CACGAGACAT ACCTTGTCCG
287 (2) INFORMATION FOR SEQ ID NO: 4:
289
        (i) SEQUENCE CHARACTERISTICS:
290
              (A) LENGTH: 32 base pairs
291
              (B) TYPE: nucleic acid
292
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear
293
        (ii) MOLECULE TYPE: DNA (genomic)
295
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
                                                                             32
302 GGGAAGCTTT TAATACTGAA ATCGTACAGG AC
304 (2) INFORMATION FOR SEQ ID NO: 5:
         (i) SEQUENCE CHARACTERISTICS:
306
307
              (A) LENGTH: 33 base pairs
308
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: single
309
              (D) TOPOLOGY: linear
310
        (ii) MOLECULE TYPE: DNA (genomic)
312
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
319 CGCGGATCCG CCATCATGGT GCTGTGGGAG TCC
                                                                             33
321 (2) INFORMATION FOR SEQ ID NO: 6:
         (i) SEQUENCE CHARACTERISTICS:
323
324
              (A) LENGTH: 31 base pairs
              (B) TYPE: nucleic acid
325
326
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear
327
329
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
334
                                                                             31
336 GCGTCTAGAC TAGTATAGAA CACTGTAGTC C
338 (2) INFORMATION FOR SEQ ID NO: 7:
        (i) SEQUENCE CHARACTERISTICS:
340
341
              (A) LENGTH: 31 base pairs
342
              (B) TYPE: nucleic acid
343
              (C) STRANDEDNESS: single
              (D) TOPOLOGY: linear
344
        (ii) MOLECULE TYPE: DNA (genomic)
346
        (xi) SEOUENCE DESCRIPTION: SEO ID NO: 7:
353 GCGTCTAGAC TAGTATAGAA CACTGTAGTC C
                                                                             31
355 (2) INFORMATION FOR SEQ ID NO: 8:
         (i) SEQUENCE CHARACTERISTICS:
357
358
              (A) LENGTH: 31 base pairs
359
              (B) TYPE: nucleic acid
360
              (C) STRANDEDNESS: single
361
              (D) TOPOLOGY: linear
363
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
368
                                                                             31
370 GCGTCTAGAC TAGTATAGAA CACTGTAGTC C
372 (2) INFORMATION FOR SEQ ID NO: 9:
374
         (i) SEQUENCE CHARACTERISTICS:
```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/644,875

DATE: 01/21/2004 TIME: 14:50:32

Input Set : N:\Crf3\RULE60\10644875.RAW.txt

Output Set: N:\CRF4\01212004\J644875.raw

L:26	M:220	C:	Keyword	misspelled	or	invalid	format,	[(A) APPLICATION NUMBER:]
L:27	M:220	С:	Keyword	misspelled	or	invalid	format,	[(B) FILING DATE:]
								[(vii) PRIOR APPLICATION DATA:]
L:41	M:220	C:	Keyword	misspelled	or	invalid	format,	[(viii) ATTORNEY/AGENT INFORMATION:]
T . 16	M. 220	c.	Karmard	miccoolled	or	invalid	format	[(iv) TELECOMMUNICATION INFORMATION:]